LONG ISLAND WATER RESOURCES
BULLETIN LIWR-7

HYDROGEOLOGIC DATA FROM INVESTIGATION OF WATER RESOURCES OF THE SOUTH FORK, SUFFOLK COUNTY, NEW YORK

Prepared by the
U. S. GEOLOGICAL SURVEY
in cooperation with
SUFFOLK COUNTY DEPARTMENT OF ENVIRONMENTAL CONTROL
and
SUFFOLK COUNTY WATER AUTHORITY

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HYDROGEOLOGIC DATA FROM INVESTIGATION OF WATER RESOURCES OF THE SOUTH FORK, SUFFOLK COUNTY, NEW YORK

By

Bronius Nemickas, E. J. Koszalka, and D. E. Vaupel

U. S. Department of the Interior
Geological Survey

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CONTENTS

	Page
Conversion factors and abbreviations	iii
Abstract	1
Introduction	3
Purpose and scope	3
Location and extent of area	3
Methods of investigation	3
Acknowledgments	3
Geohydrology	4
Geology of South Fork	4
Hydrology of South Fork	5
Ground-water data	5
Surface-water data	6
Water-quality data	6
Ground-water pumpage	10
References cited	11
Tables	12

ILLUSTRATIONS

Figure 1. Map showing major geographic features of Long Island and area of investigation 2

Figure 2. Generalized geologic cross section of the South Fork. . . 4

PLATES

(in pocket)

Plate 1. Map showing locations of wells and streamflow-measurement sites on South Fork, Long Island

Plate 2. Contour map of water table on South Fork of Long Island, April 1975

TABLES

		Page
Table 1.	Water levels in wells.	12
2.	Chemical analyses of water from wells.	16
3.	Chemical analyses of water from streams.	24
4.	Discharge of streams	30
5.	Major estimated public-supply withdrawals in the South Fork, Long Island, from 1970 to 1975	31

CONVERSION FACTORS AND ABBREVIATIONS

English	Multiply by	To obtain SI[1] units
feet (ft)	.348	meters (m)
square miles (mi^2)	2.590	square kilometers (km^2)
million gallons per day (Mgal/d)	.04381	cubic meters per second (m^3/s)
--	--	milligrams per liter (mg/L)
--	--	micromhos (μmho)

[1] International system of units

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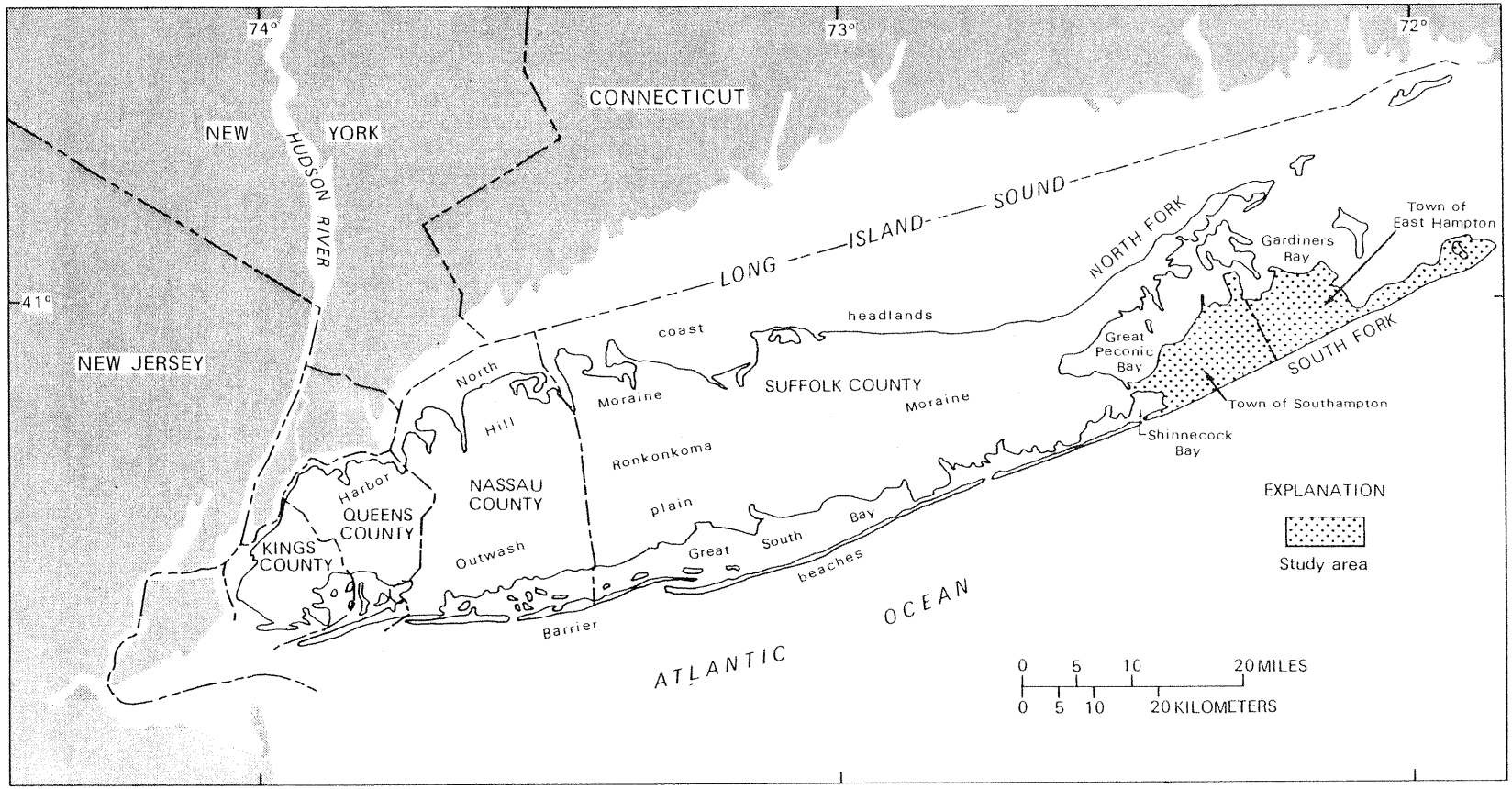
ABSTRACT

Water-quality analyses indicate that, with some exceptions, water on the South Fork of Long Island is acceptable for drinking and most other uses. Total withdrawal for public supply in 1975 was about 2.57 million gallons per day. The upper glacial aquifer contributed 2.36 million gallons per day, and the Magothy aquifer, 0.21 million gallons per day.

The hydrogeology of the South Fork of Long Island is briefly described, and a well-location map, lists of water-level measurements in 174 wells screened in the upper glacial aquifer, and a water-table map are included. Water-quality analyses of water from 51 of the wells and from 20 selected stream sites are presented in tables.



Base from U.S. Geological Survey
State base map, 1:500,000, 1974

Figure 1.--Major geographic features of Long Island and area of investigation.

INTRODUCTION

Purpose and Scope

A 3-year water-resources investigation of the South Fork was begun in April 1974 by the U.S. Geological Survey in cooperation with the Suffolk County Department of Environmental Control and the Suffolk County Water Authority. Its purpose was to compile and evaluate geologic and hydrologic data relating to the occurrence, source, availability, movement, and chemical quality of water in both the upper glacial and Magothy aquifers, the major sources of public-supply water on the South Fork. As a part of this study, streamflow and water-quality data were collected to evaluate the quantity and quality of water in the study area. This report presents the hydrogeologic and chemical data that are currently available.

Location and Extent of Area

The South Fork forms the southeast tip of Suffolk County and lies between 71°50' and 72°35' W long. and 40°50' and 41°06' N lat. (fig. 1). It includes the Town of East Hampton and the eastern part of the Town of Southampton. The area is bounded on the north by Great Peconic and Gardiners Bays, on the east and south by the Atlantic Ocean, and on the west by Shinnecock and Great Peconic Bays. The area of the South Fork is 137 square miles.

Method of Investigation

Data on ground-water levels were collected in April and October 1974 and April 1975 (table 1) from 174 observation wells screened in the upper glacial aquifer throughout the South Fork (plate 1) and were compiled to make a water-table map (plate 2).

Physical and chemical analyses were made for both ground water and surface water. Chemical analyses of water samples from 51 wells are presented in table 2, and those from 20 stream sites, in table 3. The analyses were made by the U.S. Geological Survey laboratory in Albany, N.Y. Location of the wells and stream-sampling sites are shown in plate 1.

Acknowledgments

The authors extend thanks to the Suffolk County Department of Environmental Control and the Suffolk County Water Authority for their cooperation in this phase of the investigation and to a student group from Princeton University, under the supervision of Jeffrey Bart, for their assistance in basic-data collection.

GEOHYDROLOGY

Geology of the South Fork

The geology of the South Fork was first studied by Fuller (1914); his report included a surficial geologic map and descriptive information on the Pleistocene units. Information on most of the subsurface geology of the South Fork was presented in Suter, de Laguna, and Perlmutter (1949). Since these early studies, many other investigators have written on the geology and hydrology of the South Fork; some of these reports include Perlmutter and DeLuca (1963), Holzmacher, McLendon and Murrel (1968), Fetter (1971), Jensen and Soren (1974), and Berkebile and Anderson (1975).

The South Fork is underlain by unconsolidated deposits that rest unconformably on the Precambrian(?) basement complex (fig. 2). The unconsolidated formations strike east-northeast and dip to the south. Depth to basement decreases eastward along the length of the South Fork from approximately 1,450 to 1,150 feet. The basement is overlain by the Raritan Formation, which consists of the Lloyd Sand Member and an overlying clay member of the Raritan Formation. The Magothy Formation-Matawan Group, undifferentiated, overlies the Raritan Formation, and the Monmouth Group overlies the Magothy-Matawan unit. These three units are of Late Cretaceous age and, except for the Monmouth Group, are continuous throughout the study area; the Monmouth Group occurs only at the south edge of the area (Jensen and Soren, 1974, sheet 1).

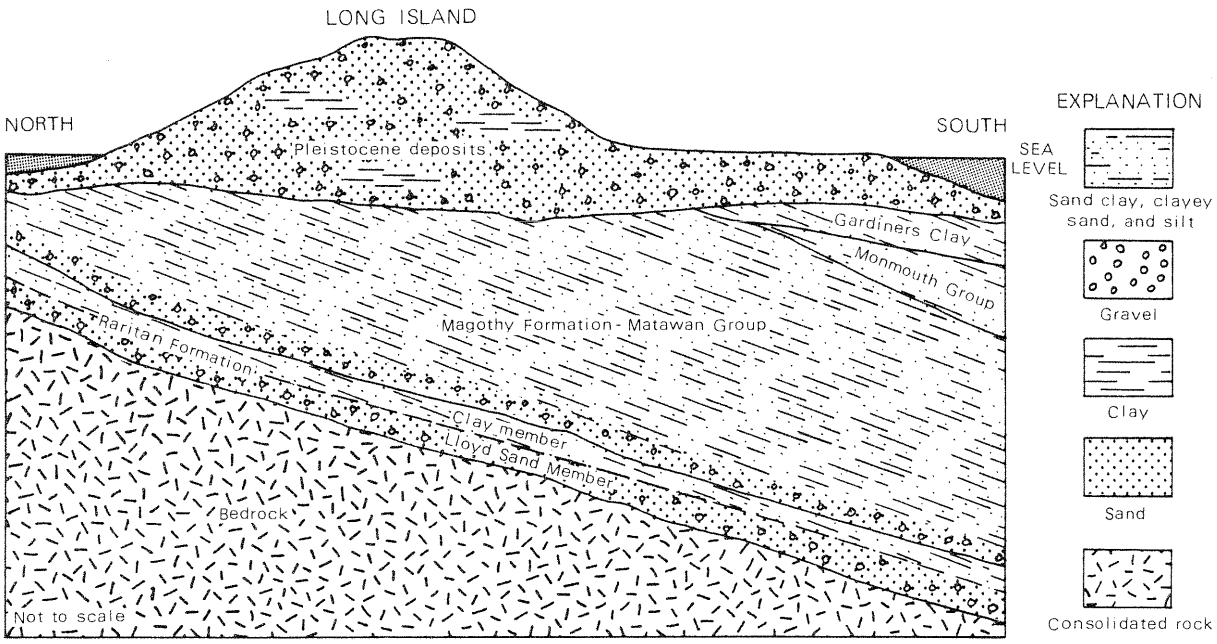


Figure 2.--Generalized geologic cross section of the South Fork.

The Pleistocene deposits of the South Fork are composed of several glacial, periglacial, and interglacial units, including the Gardiners Clay, the Montauk Till Member of the Manhasset Formation, a late Wisconsin drift, and loess (Nieter, Nemickas, Koszalka, and Newman, 1975). The surficial geologic units consist of outwash deposits, morainal deposits including till, and Holocene deposits. The Holocene units consist of shore, beach, and salt-marsh deposits throughout the area and artificial fill at certain locations.

Hydrology of the South Fork

Water is continually being exchanged in a circulatory pattern between the ocean and the atmosphere. In general, the amount of precipitation on the South Fork determines the amount of water available for use in the area. Some of the precipitation on the land evaporates, some is absorbed by plants and is later transpired back to the atmosphere, some flows overland to streams, and some infiltrates to become ground water. Some of the ground water discharges into streams that flow to the ocean; however, most of the ground water discharges directly into the ocean. From the ocean, the water is evaporated back to the atmosphere.

Fresh ground water on the South Fork originates from local precipitation. Recharge to the ground-water reservoirs results from infiltration of precipitation through the soil and to the water table. The amount of water that reaches the water table varies throughout the year and is controlled by precipitation type, frequency, and intensity; by the slope of the land surface; by the geology, soil moisture, amount and kind of vegetal cover; and by air temperature.

The water table generally rises from the end of October to the end of April, when vegetation is dormant and evapotranspiration is thus at its lowest. On the South Fork, the water table generally begins to decline in May and reaches its lowest levels in early October. The maximum seasonal water-table fluctuation on the South Fork is less than 3 feet.

Ground-Water Data

Water-level measurements in 174 wells during April 1975 (table 1) were used to prepare a map of the water table on the South Fork (plate 2). In the western part of the study area (plate 2) is a ground-water mound, whose maximum altitude is 24 feet. Anomalous water levels as high as 66 feet have been recorded within this area. It is possible that these water levels result from variations in hydraulic conductivity of the geologic units in the region. The authors are now investigating the hydrogeologic conditions of this area. East of this mound, the water table reaches a maximum altitude of 13 feet and slopes downward to sea level at the shore. Water levels may be higher in places for which data are lacking; this is particularly likely north of Hardscrabble. Smaller water-table mounds have been observed throughout the study area; for example, in North Haven, Hither Hills, and Montauk. These water-table mounds have a maximum altitude of less than 4 feet.

Surface-Water Data

Stream discharges were measured periodically at 20 sites in the study area in April and October 1974 and April 1975. The locations of these sites are shown on plate 1, and the discharges measured are given in table 4. The discharges of Cold Spring Pond tributary measured in October 1974 and April 1974 were not recorded because the water's conductivity indicated tidal conditions at the site.

It was difficult to obtain accurate discharge measurements of streams that flow into bays and ponds along the south shore because from late fall to early spring, the mouths of these bays and ponds are closed by sand deposits that inhibit surficial freshwater flow into the ocean. Measurements during these periods show a decrease in velocity and an increase in cross-section area, which causes inaccuracies in the discharge values. However, such measurements may be used as approximations.

Water-Quality Data

For all purposes, the quality of water is as important as its availability. All water in its natural state contains minerals in varying proportions as a result of its having leached soluble material from the atmosphere, soil, and rocks through which it moved. Factors that affect the chemical quality of ground water are the composition of material with which it comes in contact, the duration of contact, water temperature and pressure, and presence of domestic wastes and fertilizers in the ground.

The ground water and the fresh surface water on the South Fork are for the most part of suitable quality for drinking and most other uses. Some constituents may occur in objectionable concentrations; for example, iron and chloride, which may be damaging to machinery, and nitrate, which may be harmful to infants. Chemical analyses of water samples from 51 wells in the upper glacial aquifer (Pleistocene deposits) and from 20 stream sites are listed in tables 2 and 3; locations of the sampling sites are shown in plate 1. Chemical-quality data for the Magothy aquifer were not included because the observation-well network has no wells screened in that aquifer.

Tables 2 and 3 present the chemical constituents of water in the upper glacial aquifer and in the streams that discharge from it. The following paragraphs discuss the negative effects of high concentrations of some of these constituents.

Silica (SiO_2).--Silica can precipitate in steam boilers and form a scale that will retard the transfer of heat. Otherwise, silica is of minor importance in restricting water use.

Water samples from the upper glacial aquifer had silica concentrations that ranged from 0.5 to 21 mg/L, and most samples contained less than 15 mg/L. Samples from the streams ranged from 0.1 to 15 mg/L, and most samples contained less than 10 mg/L.

Chloride (Cl).--The chlorides of calcium, magnesium, sodium, and potassium are highly soluble. Excessive chloride concentrations can harm some crops and are corrosive to many metals. Concentrations greater than 250 mg/L can be tasted and are considered excessive by the U.S. Public Health Service (1962, p. 7). The U.S. Environmental Protection Agency's "National Interim Primary Drinking Water Regulations" (1975) does not list a limit for chloride concentration.

Water samples from the upper glacial aquifer had chloride concentrations that ranged from 4.1 mg/L to more than 300 mg/L, and most samples contained less than 25 mg/L. Samples from the streams ranged from 8.9 to 500 mg/L, and most samples contained less than 25 mg/L.

Nitrate (N).--High concentrations of nitrate in water can cause cyanosis (blue-baby disease) in infants. Cyanosis is caused by methemoglobinemia. The U.S. Environmental Protection Agency, "National Interim Primary Drinking Water Regulations" (1975, p. 59570), has established a maximum safety level of 10 mg/L for nitrate as nitrogen, which is also the limit set by the U.S. Public Health Service (1962, p. 7). The nitrate (as N) content of native ground water on Long Island was estimated by Perlmutter and Koch (1972) to be 0.22 mg/L; greater concentrations may indicate water contamination by sewage, fertilizers, or organic matter.

Water samples from the upper glacial aquifer had nitrate concentrations (as N) that ranged from 0 to 15 mg/L, and most samples contained less than 1 mg/L. Samples from the streams ranged from 0 to 6.7 mg/L, and most samples contained less than 1 mg/L.

Calcium (Ca) and Magnesium (Mg).--Calcium and magnesium are readily soluble in water high in carbon dioxide. Water hardness increases with the concentration of calcium, magnesium, or both. These constituents also tend to form boiler scale.

Water samples from the upper glacial aquifer had a total calcium and magnesium concentration that ranged from 1 to 133 mg/L, and most samples contained less than 25 mg/L. Samples from the streams ranged from 2.9 to 40.7 mg/L, and most samples contained less than 10 mg/L.

Iron (Fe) and Manganese (Mn).--Water samples collected from wells that were closely spaced and of similar depth sometimes had widely differing iron and manganese concentrations, and frequently the iron and manganese concentrations in water from the same well varied through time. Erratic variations in iron concentration have several possible explanations. Colloidal iron or fine iron oxide can be picked up by water from the aquifer or from incrustations on the well screen or the well casing, and such iron in the sample may be reported as a true constituent of the water. Surging or pumping of a well may also affect the iron concentration in water samples by dislodging incrustations and iron bacteria from well screens or casing.

Concentrations of iron or iron and manganese as low as 0.3 mg/L can interfere with efficient operation of many industries. Those frequently affected are food manufacturing, textile, carbonated beverage, high-grade pulp and paper, and dyed-fabric industries. The U.S. Public Health Service (1962, p. 7) has established a maximum concentration of 0.3 mg/L for iron and 0.05 mg/L for manganese for drinking water. The U.S. Environmental Protection Agency's "National Interim Primary Drinking Water Regulations" (1975) does not list iron and manganese. Although the average diet contains substantial amounts of these metals, they are listed by the U.S. Public Health Service because of their adverse economic aspects and the tendency of iron to stain fabrics and porcelain.

Water samples from the upper glacial aquifer had total iron and manganese concentrations that ranged from 0.05 to 38 mg/L, and most samples contained a combined concentration of less than 3 mg/L. Samples from the streams ranged from 0.02 to 2 mg/L, and most samples contained less than 0.5 mg/L.

Sodium (Na) and Potassium (K).--Most natural waters on the South Fork have low concentrations of sodium and potassium, generally less than 20 mg/L. Once sodium is leached from the sediments, it tends to remain in solution. Potassium recombines easily with other products of weathering and forms less soluble compounds; thus, the potassium concentration is generally lower than the sodium concentration in natural waters. The compounds of these metals are not harmful to animal life in the concentrations commonly found; however, concentrations greater than 100 mg/L, together with bicarbonate, may cause foaming in steam boilers. High sodium-salt concentration in irrigation water can reduce the permeability of the soil.

Water samples from the upper glacial aquifer had combined total sodium and potassium concentrations that ranged from 4.8 to 187 mg/L, and most samples contained a combined concentration of less than 20 mg/L. Samples from the streams ranged from 6.9 to 77.8 mg/L, and most samples contained less than 15 mg/L.

Sulfate (SO_4).--Sulfate tends to form a hard scale in boilers when the water also contains calcium and magnesium, and this increases the cost of softening the water. Water containing more than 250 mg/L sulfate can have a laxative effect.

Water samples from the upper glacial aquifer had sulfate concentrations that ranged from 2.8 to 130 mg/L, and most samples contained less than 50 mg/L. Samples from the streams ranged from 4 to 78 mg/L, and most samples contained less than 15 mg/L.

Fluoride (F).--The maximum level for fluoride is variable and is established in proportion to the annual average of the maximum daily air temperatures for the location. This level ranges from 1.4 mg/L in the warmest areas to 2.4 mg/L in the coldest. The recommended optimum fluoride concentration is 50 percent of these values.

Water samples from the upper glacial aquifer had fluoride concentrations that ranged from 0 to 0.3 mg/L, and most samples had concentrations of less than 0.2 mg/L. Samples from the streams ranged from 0 to 0.4 mg/L, and most samples contained less than 0.2 mg/L.

Bicarbonate (HCO_3).--Bicarbonate has a minor effect on water use except for high-pressure-boiler feed and some industrial uses.

Water samples from the upper glacial aquifer had bicarbonate concentrations that ranged from 0 to 55 mg/L, and most samples contained less than 25 mg/L. Samples from the streams ranged from 0 to 35 mg/L, and most samples contained less than 15 mg/L.

Dissolved solids.--The dissolved-solids concentration represents an approximation of the total amount of dissolved mineral matter in a water sample.

Water samples from the upper glacial aquifer had dissolved-solids concentrations that ranged from 16 to 587 mg/L, and most samples contained less than 200 mg/L. Samples from the streams ranged from 38 to 221 mg/L, and most samples contained less than 100 mg/L.

Hardness.--Most of the hardness in water is caused by calcium and magnesium. Other constituents, such as iron, aluminum, zinc, and free acid also cause hardness; however, these are not usually present in quantities large enough to have any appreciable effect. A classification of hardness, in mg/L (as $CaCO_3$), used by the U.S. Geological Survey, is as follows (Durfor and Becker, 1964):

soft	0 to 60 mg/L
moderately hard	61 to 120 mg/L
hard	121 to 180 mg/L
very hard	above 180 mg/L

Water in the upper glacial aquifer ranged in hardness from 3 to 200 mg/L, and most of the water in the study area was soft to moderately hard. Samples from the streams ranged in hardness from 10 to 110 mg/L, and most samples contained less than 25 mg/L.

pH.--The degree of acidity or alkalinity of water is indicated by the hydrogen-ion concentration and is expressed as the pH value. A scale from 0 to 14 is used to denote the degree of hydrogen-ion concentration. A pH of 7 is neutral; values below 7 are acid, and those above 7 are alkaline. Water having a pH of less than 6 is likely to be corrosive to metal.

The pH of water samples from the upper glacial aquifer ranged from 4.4 to 7, and the pH of samples from streams ranged from 4.6 to 7.4.

Specific conductance.--The specific conductance of water is a measure of its capacity to conduct electricity. Conductance increases with the concentration and degree of ionization of the different minerals in solution and with the temperature of the water.

Specific conductances of water samples from the upper glacial aquifer ranged from less than 50 to 1,130 µmho, and samples from the streams ranged from 60 to 1,830 µmho.

Ground-Water Pumpage

The major estimated withdrawals for public water supply for the South Fork from 1970 to 1975 are given in table 5. In 1975, 2.4 million gallons per day was withdrawn from the upper glacial aquifer, and 0.21 million gallons per day was withdrawn from the Magothy aquifer. The breakdown of total withdrawals for each year by aquifer shows that the upper glacial aquifer is the major source for public water supply. The increase in withdrawals from the upper glacial aquifer in 1974 and 1975 in East Hampton by the Suffolk County Water Authority is attributed to additional service to users who were previously supplied by the Amagansett and Montauk Water Companies. The Montauk Water Company and the Amagansett Water Company were taken over by the Suffolk County Water Authority in May 1973 and May 1974, respectively. The locations of public-supply wells and well fields are shown on plate 1.

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TABLE 1.--WATER LEVELS IN WELLS, FEET ABOVE MEAN SEA LEVEL

WELL NUMBER[1]	LATITUDE AND LONGITUDE[2]	OWNER[3]	DATE AND WATER LEVEL		DATE AND WATER LEVEL		DATE AND WATER LEVEL	
S 1512.	405726. 0720937.	EASTHAMPTON FD	4- 8-74	4. 68	10-21-74	4. 05	4-22-75	4. 47
S 2810.	410040. 0721825.	SAG HARBOR FD	4- 9-74	2. 21	10-21-74	1. 23	4-22-75	1. 96
S 2961.	410026. 0721812.	SAG HARBOR FD	4- 9-74	1. 66	10-21-74	1. 00	4-22-75	0. 96
S 6659.	405343. 0722135.	SOUTHAMPTON FD	4- 8-74	3. 27	10-22-74	2. 92	4-21-75	3. 28
S 6660.	405400. 0722119.	SOUTHAMPTON FD	4- 8-74	3. 40	10-22-74	2. 72	4-21-75	3. 35
S 6661.	405418. 0722130.	SOUTHAMPTON FD	4- 8-74	3. 98	10-22-74	3. 29	4-21-75	4. 05
S 6663.	405449. 0722056.	SOUTHAMPTON FD	4- 8-74	5. 18	10-22-74	5. 30	4-21-75	5. 98
S 8287.	405917. 0721817.	NOYACK FD	4-10-74	3. 62	10-21-74	1. 73	4-21-75	3. 02
S 8288.	405938. 0721958.	NOYACK FD	4-10-74	5. 16	10-21-74	4. 38	4-21-75	7. 67
S 8289.	405954. 0722034.	NOYACK FD	4- 7-74	6. 49	10-21-74	5. 75	4-21-75	4. 85
S 8738.	405609. 0721431.	EASTHAMPTON FD	4- 8-74	4. 75	10-22-74	3. 89	4-22-75	4. 83
S 8831.	405507. 0722444.	TOWN OF SOUTHAMPTON	4-10-74	7. 57	10-21-74	6. 72	4-21-75	7. 50
S 8833.	405756. 0721735.	TOWN OF SOUTHAMPTON	4-10-74	16. 95	10-23-74	15. 38	4-21-75	16. 32
S 8836.	405309. 0722331.	SOUTHAMPTON FIRE DE	4-10-74	6. 89	10-21-74	5. 90	4-21-75	7. 32
S 8837.	405756. 0721049.	EASTHAMPTON FD	4- 8-74	9. 02	10-21-74	7. 92	4-22-75	8. 83
S 8838.	405628. 0721647.	BRIDGEHAMPTON FD	4- 8-74	11. 31	10-22-74	10. 21	4-22-75	11. 34
S 8839.	405840. 0720823.	TOLER	4-10-74	7. 95	10-22-74	7. 74	4-23-75	8. 20
S 8843.	405908. 0721100.	CONKLIN	4-10-74	10. 52	10-23-74	9. 44	4-21-75	10. 16
S 8844.	405948. 0721712.	SAG HARBOR FD	4- 9-74	6. 25	10-23-74	4. 81	4-22-75	6. 16
S 8965.	410055. 0721839.	SAG HARBOR FD	4- 9-74	2. 83	10-21-74	1. 50	4-22-75	2. 55
S10227.	405618. 0721517.	BRIDGEHAMPTON FD	4- 8-74	9. 02	10-22-74	8. 17	4-22-75	9. 45
S10228.	405606. 0721409.	EASTHAMPTON FD	4- 8-74	1. 65	10-22-74	3. 41	4-22-75	2. 17
S10229.	410058. 0721903.	SAG HARBOR FD	4- 9-74	2. 55	10-21-74	1. 51	4-22-75	2. 39
S13204.	405926. 0722132.	NOYACK FD	4-10-74	21. 53	10-21-74	19. 21	4-21-75	20. 98
S13205.	405952. 0722022.	NOYACK FD	4- 9-74	7. 31	10-21-74	6. 52	4-21-75	5. 63
S13757.	410147. 0721839.	SAG HARBOR FD	4- 9-74	2. 18	10-21-74	1. 62	4-22-75	1. 95
S13923.	410018. 0720730.	BARNES HOLE FD	4- 9-74	4. 62	10-21-74	3. 61	4-22-75	4. 22
S13924.	410046. 0720851.	BARNES HOLE FD	4- 9-74	5. 43	10-21-74	3. 89	4-22-75	4. 81
S15046.	410208. 0721034.	MAIDSTONE FD	4- 9-74	2. 50	10-21-74	1. 86	4-22-75	2. 22
S15047.	410149. 0720855.	FIREPLACE FD	4- 9-74	3. 41	10-21-74	2. 02	4-22-75	2. 53
S15048.	410034. 0720948.	BARNES HOLE FD	4- 9-74	7. 29	10-21-74	5. 45	4-22-75	7. 10
S15193.	410045. 0720802.	BARNES HOLE FD	4- 9-74	4. 16	10-21-74	3. 06	4-22-75	3. 50
S15332.	405438. 0721816.	BRIDGEHAMPTON FD	4-10-74	4. 71	10-22-74	4. 33	4-22-75	4. 61
S15333.	405511. 0721935.	BRIDGEHAMPTON FD	4-10-74	6. 21	10-22-74	5. 35	4-22-75	6. 19
S15507.	405527. 0721805.	BRIDGEHAMPTON FD	4-10-74	8. 73	10-22-74	7. 85	4-22-75	8. 93
S15508.	405922. 0721847.	NOYACK FD	4-10-74	2. 99	10-21-74	2. 49	4-21-75	2. 03
S15509.	405945. 0722038.	NOYACK FD	4- 9-74	6. 84	10-21-74	4. 89	4-21-75	6. 76
S15510.	405946. 0722112.	NOYACK FD	4- 9-74	7. 60	10-21-74	6. 70	4-21-75	5. 95
S16117.	410034. 0720407.	AMAGANSETT FD	4- 8-74	0. 80	10-21-74	1. 10	4-22-75	1. 68
S16118.	410007. 0720201.	AMAGANSETT FD	4- 8-74	2. 33	10-21-74	2. 10	4-22-75	2. 10
S16119.	405940. 0720329.	AMAGANSETT FD	4- 8-74	2. 51	10-21-74	2. 24	4-22-75	2. 12
S16120.	410106. 0720756.	BARNES HOLE FD	4- 9-74	1. 98	10-21-74	1. 15	4-22-75	0. 63
S16121.	410015. 0720755.	BARNES HOLE FD	4- 9-74	5. 16	10-21-74	3. 97	4-22-75	4. 87
S17173.	410106. 0720923.	BARNES HOLE FD	4- 4-74	4. 24	10-21-74	3. 83	4-22-75	3. 53
S17174.	410015. 0720406.	AMAGANSETT FD	4- 8-74	1. 11	10-21-74	0. 98	4-22-75	0. 75
S17175.	410014. 0720336.	AMAGANSETT FD	4- 8-74	0. 55	10-21-74	0. 47	4-22-75	0. 18

S17176.	410037.	0720347.	AMAGANSETT FD	4- 8-74	0.96	10-21-74	0.98	4-22-75	0.36
S18021.	405442.	0722022.	SOUTHAMPTON FD	4- 8-74	3.40	10-22-74	2.78	4-21-75	3.33
S18022.	405256.	0722750.	SOUTHAMPTON FD	4- 9-74	2.17	10-23-74	2.15	4-21-75	2.27
S18024.	405352.	0722224.	SOUTHAMPTON FD	4- 8-74	7.56	10-22-74	6.66	4-21-75	8.00
S18026.	405908.	0721803.	SAG HARBOR FD	4-10-74	5.62	10-21-74	4.27		
S19891.	410207.	0721041.	MAIDSTONE FD	4- 9-74	2.08	10-21-74	1.50	4-23-75	1.54
S20192.	410034.	0721054.	AMAGANSETT FD	4- 9-74	5.62	10-21-74	4.79	4-23-75	5.12
S21555.	405305.	0722633.	SOUTHAMPTON FD	4- 8-74	1.44	10-23-74	1.93	4-21-75	1.43
S21556.	405256.	0722821.	SOUTHAMPTON FD	4-20-74	1.08	10-23-74	0.94	4-21-75	0.94
S21557.	405346.	0722822.	SOUTHAMPTON FD	4-10-74	2.95	10-22-74	2.02		
S21558.	405359.	0722616.	SOUTHAMPTON FD	4-10-74	5.93	10-22-74	4.95	4-21-75	6.32
S22499.	405315.	0722632.	SOUTHAMPTON FD	4- 8-74	3.48	10-23-74	3.00	4-21-75	3.67
S22500.	405309.	0722634.	SOUTHAMPTON FD	4- 8-74	2.75	10-21-74	2.34	4-21-75	2.70
S33921.	405715.	0721937.		4-10-74	18.85	10-22-74	21.46		
S34643.	405416.	0722713.	SOUTHAMPTON FD	4-10-74	3.29	10-22-74	2.65	4-29-75	2.31
S34644.	405420.	0722714.	SOUTHAMPTON FD	4-10-74	3.46	10-22-74	2.77	4-21-75	3.49
S34645.	405422.	0722713.	SOUTHAMPTON FD	4-10-74	3.30	10-22-74	2.66	4-21-75	3.35
S36401.	405221.	0722554.	SOUTHAMPTON FD	4- 8-74	2.45	10-23-74	2.01	4-21-75	2.61
S36402.	405232.	0722608.	SOUTHAMPTON FD	4- 8-74	2.39	10-23-74	1.86	4-21-75	2.34
S36403.	405252.	0722608.	SOUTHAMPTON FD	4- 8-74	2.56	10-23-74	2.06	4-21-75	2.53
S36404.	405223.	0722538.	SOUTHAMPTON FD	4- 8-74	2.30	10-23-74	1.86	4-21-75	2.30
S36405.	405248.	0722535.	SOUTHAMPTON FD	4- 8-74	2.75	10-23-74	2.20	4-21-75	2.88
S38341.	410002.	0721853.	SAG HARBOR FD	4- 9-74	1.09	10-21-74	0.49	4-22-75	0.28
S46359.	405742.	0722323.	NORTH SEA FD	4-10-74	10.32	10-21-74	8.96	4-21-75	9.95
S46518.	405913.	0720646.	TOWN OF EASTHAMPTON	4-10-74	5.78	10-23-74	4.85	4-23-75	5.92
S46519.	410218.	0720933.	SCDPW	4-10-74	3.62	10-23-74	2.22	4-23-75	3.49
S46520.	405924.	0720947.	TOWN OF EASTHAMPTON	4-10-74	9.10	10-23-74	8.62	4-23-75	8.78
S46521.	410123.	0721303.	TOWN OF EASTHAMPTON	4-10-74	5.41	10-23-74	4.17	4-21-75	5.00
S46522.	405915.	0721215.	TOWN OF EASTHAMPTON	4-10-74	10.64	10-23-74	10.61	4-21-75	10.46
S46523.	405828.	0721151.	TOWN OF EASTHAMPTON	4-10-74	10.88	10-23-74	10.29	4-21-75	10.93
S46524.	405907.	0721534.	TOWN OF EASTHAMPTON	4-10-74	11.15	10-22-74	9.55	4-21-75	10.64
S46525.	405741.	0721448.		4-10-74	12.47	10-22-74	11.40	4-21-75	12.59
S46526.	405843.	0721808.	TOWN OF SOUTHAMPTON	4-10-74	19.58	10-22-74	18.05	4-21-75	19.16
S46527.	405746.	0721759.	SCDPW	4-10-74	24.64	10-22-74	23.09	4-21-75	23.67
S46529.	405602.	0722218.		4-10-74	16.23	10-22-74	15.87	4-21-75	15.37
S47235.	410037.	0721451.	SCDEC	4- 8-74	1.91	10-23-74	1.20	4-21-75	1.11
S47236.	410156.	0721336.	SCDEC	4- 8-74	3.11	10-23-74	2.11	4-21-75	3.03
S48255.	405733.	0722308.	NORTH SEA FD	4-10-74	12.71	10-21-74	11.60	4-21-75	12.24
S48425.	405606.	0722027.	SCDEC	4- 8-74	13.96	10-22-74	13.51	4-21-75	14.72
S48426.	405740.	0721900.	SCDEC	4- 8-74	22.18	10-22-74	21.58	4-21-75	20.63
S48427.	405618.	0721805.	SCDEC	4- 8-74	13.88	10-22-74	12.38	4-21-75	14.24
S48428.	405704.	0721659.	SCDEC	4- 8-74	14.63	10-22-74	13.60	4-20-75	14.70
S48429.	405809.	0721210.	SCDEC	4- 8-74	11.10	10-23-74	10.38	4-21-75	11.02
S48430.	405501.	0722155.	SCDEC	4- 8-74	8.57	10-22-74	7.72	4-21-75	8.36
S48432.	405606.	0722357.	SCDEC	4- 8-74	7.66	10-23-74	6.93	4-21-75	7.44
S48433.	405644.	0722201.	SCDEC	4- 8-74	18.15	10-21-74	17.82	4-21-75	16.91

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[1] S, SUFFOLK COUNTY
[2] SHOULD BE READ 40°57'26", 072°09'37"
[3] FD, FIRE DEPARTMENT

TABLE 1.--WATER LEVELS IN WELLS, FEET ABOVE MEAN SEA LEVEL (CONTINUED)

WELL NUMBER[1]	LATITUDE AND LONGITUDE[2]	OWNER[3]	DATE AND WATER LEVEL	DATE AND WATER LEVEL	DATE AND WATER LEVEL
S48437.	405831. 0721712.	SCDEC	4- 8-74 14. 02	10-22-74 13. 02	4-21-75 13. 71
S48438.	405844. 0721916.	SCDEC	4- 8-74 65. 95	10-23-74 64. 24	4-21-75 66. 24
S48439.	405325. 0722627.	SCDEC	4- 8-74 4. 28	10-22-74 3. 57	4-21-75 4. 64
S48440.	405325. 0722627.	SCDEC	4- 8-74 4. 24	10-23-74 3. 55	4-21-75 4. 64
S48441.	405349. 0722348.	SCDEC	4- 8-74 8. 08	10-21-74 7. 37	4-21-75 8. 56
S48517.	405838. 0721540.	SCDEC		10-22-74 12. 71	4-21-75 13. 22
S48518.	405650. 0721452.	SCDEC	4- 8-74 9. 41	10-22-74 8. 74	4-21-75 9. 78
S48519.	410243. 0715601.	SCDEC		10-23-74 2. 51	4-23-75 2. 82
S48520.	405818. 0721321.	SCDEC	4- 8-74 12. 38	10-23-74 11. 70	4-21-75 12. 24
S48521.	405940. 0721647.	SCDEC	4- 8-74 7. 51	10-23-74 6. 21	4-21-75 7. 59
S48522.	405858. 0720624.	SCDEC	4- 8-74 4. 36	10-23-74 3. 69	4-23-75 4. 21
S48577.	410149. 0715832.	SCDEC	4- 8-74 4. 17	10-23-74 3. 80	4-23-75 3. 59
S48578.	405928. 0721104.	SCDEC	4- 8-74 10. 56	10-23-74 9. 57	4-21-75 10. 10
S48579.	410316. 0715355.	SCDEC	4- 8-74 3. 71	10-23-74 2. 86	4-23-75 3. 22
S48580.	410124. 0721032.	SCDEC	4- 8-74 3. 44	10-23-74 2. 34	4-23-75 3. 22
S49898.	405846. 0720930.	SCDEC		10-23-74 8. 70	4-23-75 9. 28
S50474.	405930. 0720628.	AMAGANSETT FD	4- 8-74 3. 23	10-21-74 2. 77	4-22-75 3. 20
S52642.	405608. 0721308.	EASTHAMPTON FD	4- 8-74 2. 54	10-21-74 3. 38	4-22-75 2. 42
S52643.	405613. 0721252.	EASTHAMPTON FD	4- 8-74 3. 00	10-21-74 3. 55	4-22-75 2. 75
S52644.	405952. 0720245.	AMAGANSETT FD	4- 8-74 2. 28	10-21-74 1. 86	4-22-75 1. 95
S52645.	405936. 0720312.	AMAGANSETT FD	4- 8-74 2. 62	10-21-74 2. 07	4-22-75 2. 06
S52646.	405300. 0722929.	SOUTHAMPTON FD	4-10-74 4. 41	10-23-74 4. 16	4-21-75 3. 51
S52647.	405339. 0722918.	SOUTHAMPTON FD	4-10-74 2. 81	10-22-74 2. 41	4-21-75 3. 09
S52648.	405359. 0722506.	NORTH SEA FD	4- 8-74 6. 81	10-22-74 6. 06	4-21-75 7. 39
S52649.	405449. 0722427.	NORTH SEA FD	4- 8-74 8. 66	10-22-74 7. 69	4-11-75 8. 96
S52650.	405448. 0722247.	NORTH SEA FD	4- 8-74 10. 70	10-22-74 9. 59	4-21-75 10. 55
S52651.	405404. 0722224.	SOUTHAMPTON FD	4- 8-74 8. 44	10-22-74 7. 44	4-21-75 8. 86
S52652.	405258. 0722334.	SOUTHAMPTON FD	4- 8-74 6. 30	10-23-74 5. 64	4-21-75 6. 78
S52653.	405658. 0721757.	BRIDGEHAMPTON FD	4-10-74 17. 01	10-22-74 14. 78	4-22-75 16. 77
S52654.	405922. 0721757.	SAG HARBOR FD	4-10-74 5. 20	10-21-74 3. 96	4-21-75 4. 86
S52655.	405927. 0721859.	NOYACK FD	4-10-74 2. 70	10-21-74 1. 54	4-21-75 2. 19
S52657.	405912. 0722207.	NOYACK FD	4-10-74 21. 32	10-21-74 19. 38	4-21-75 20. 53
S52658.	405411. 0722619.	SOUTHAMPTON FD	4-10-74 6. 08	10-22-74 4. 70	4-21-75 4. 94
S52659.	405304. 0722318.	SOUTHAMPTON FD	4- 8-74 6. 41	10-22-74 5. 61	4-21-75 6. 89
S52660.	405245. 0722217.	SOUTHAMPTON FD	4- 8-74 4. 46	10-22-74 3. 62	4-21-75 4. 29
S52661.	405308. 0722219.	SOUTHAMPTON FD	4- 8-74 6. 31	10-22-74 5. 40	4-21-75 6. 50
S52662.	405311. 0722208.	SOUTHAMPTON FD	4- 8-74 4. 11	10-22-74 4. 05	4-21-75 3. 19
S52663.	405315. 0722142.	SOUTHAMPTON FD	4- 8-74 4. 25	10-22-74 3. 42	4-21-75 4. 25
S52664.	405315. 0722142.	SOUTHAMPTON FD	4- 8-74 4. 29	10-22-74 3. 47	4-21-75 4. 30
S52665.	405437. 0722111.	SOUTHAMPTON FD	4- 8-74 4. 83	10-22-74 4. 15	4-21-75 4. 64
S52666.	405434. 0722039.	SOUTHAMPTON FD	4- 8-74 4. 00	10-22-74 3. 45	4-21-75 3. 95
S52667.	405510. 0722037.	SOUTHAMPTON FD	4- 8-74 5. 98	10-22-74 5. 25	4-21-75 6. 03
S52668.	405544. 0722039.	BRIDGEHAMPTON FD	4- 8-74 12. 46	10-22-74 11. 19	4-22-75 12. 46
S52669.	405554. 0722001.	BRIDGEHAMPTON FD	4-10-74 12. 87	10-22-74 12. 93	4-22-75 12. 95
S52670.	405535. 0722000.	BRIDGEHAMPTON FD	4-10-74 9. 24	10-22-74 8. 22	4-22-75 9. 18
S52671.	405443. 0721915.	BRIDGEHAMPTON FD	4-10-74 4. 32	10-22-74 3. 47	4-22-75 4. 06

S52672.	405602. 0721807.	BRIDGEHAMPTON FD	4- 8-74	12. 34	10-22-74	10. 87	4-22-75	12. 75
S52673.	405603. 0721736.	BRIDGEHAMPTON FD	4- 8-74	10. 11	10-22-74	9. 20	4-22-75	10. 19
S52674.	405624. 0721718.	BRIDGEHAMPTON FD	4- 8-74	11. 35	10-22-74	10. 26	4-22-75	11. 26
S52675.	405610. 0721646.	BRIDGEHAMPTON FD	4- 8-74	9. 07	10-22-74	7. 94	4-22-75	9. 16
S52676.	405549. 0721645.	BRIDGEHAMPTON FD	4- 8-74	6. 98	10-22-74	6. 85	4-22-75	7. 14
S52677.	405535. 0721644.	BRIDGEHAMPTON FD	4- 8-74	8. 22	10-22-74	8. 18	4-22-75	8. 38
S52678.	405520. 0721642.	BRIDGEHAMPTON FD	4- 8-74	7. 73	10-22-74	6. 36	4-22-75	7. 73
S52679.	405503. 0721655.	BRIDGEHAMPTON FD	4- 8-74	1. 81	10-22-74	1. 67	4-22-75	1. 46
S52680.	405534. 0721515.	BRIDGEHAMPTON FD	4- 8-74	5. 55	10-22-74	4. 45	4-22-75	5. 33
S52682.	405552. 0721530.	BRIDGEHAMPTON FD	4- 8-74	7. 66	10-22-74	6. 70	4-22-75	7. 98
S52683.	401601. 0721500.	BRIDGEHAMPTON FD	4- 8-74	6. 69	10-22-74	6. 14	4-22-75	7. 06
S52684.	405632. 0721438.	EASTHAMPTON FD	4- 8-74	6. 85	10-22-74	6. 72	4-22-75	7. 15
S52685.	405725. 0721437.	EASTHAMPTON FD	4- 8-74	11. 07	10-22-74	10. 08	4-22-75	11. 21
S52686.	405632. 0721157.	EASTHAMPTON FD	4- 8-74	2. 73	10-21-74	2. 95	4-22-75	2. 49
S52687.	405646. 0721146.	EASTHAMPTON FD	4- 8-74	4. 52	10-21-74	4. 07	4-22-75	4. 26
S52688.	410017. 0720202.	AMAGANSETT FD	4- 8-74	1. 50	10-21-74	1. 42	4-22-75	1. 77
S52689.	405932. 0720625.	AMAGANSETT FD	4- 8-74	2. 19	10-21-74	2. 02	4-22-75	2. 08
S52690.	405936. 0720635.	AMAGANSETT FD	4- 8-74	1. 71	10-21-74	1. 58	4-22-75	1. 24
S52691.	405706. 0721021.	EASTHAMPTON FD	4- 8-74	2. 89	10-21-74	2. 86	4-22-75	2. 46
S52693.	405956. 0721128.	EASTHAMPTON FD	4- 9-74	7. 09	10-21-74	6. 45	4-23-75	6. 76
S52694.	405943. 0721145.	EASTHAMPTON FD	4- 9-74	8. 33	10-21-74	7. 54	4-23-75	7. 98
S52695.	410113. 0721859.	SAG HARBOR FD	4- 9-74	2. 82	10-21-74	1. 45	4-22-75	2. 48
S52696.	410100. 0721801.	SAG HARBOR FD	4- 9-74	1. 87	10-21-74	1. 10	4-22-75	1. 46
S52697.	410004. 0721850.	SAG HARBOR FD	4- 9-74	0. 88	10-21-74	0. 54	4-22-75	0. 29
S52699.	405949. 0721656.	SAG HARBOR FD	4- 9-74	6. 29	10-21-74	5. 02	4-22-75	5. 97
S52701.	411612. 0721230.	THREEMILE HARBOR FD	4- 9-74	3. 75	10-21-74	2. 96	4-23-75	3. 34
S52702.	410111. 0721232.	GRASSY HOLLOW FD	4- 9-74	4. 46	10-21-74	3. 65		
S52703.	410051. 0721227.	GRASSY HOLLOW FD	4- 9-74	5. 42	10-21-74	4. 69	4-23-75	5. 15
S52704.	410058. 0721226.	GRASSY HOLLOW FD	4- 9-74	3. 92	10-21-74	2. 51	4-23-75	3. 53
S52705.	410159. 0721227.	GRASSY HOLLOW FD	4- 9-74	2. 10	10-21-74	1. 08	4-23-75	1. 09
S52706.	410155. 0721216.	GRASSY HOLLOW FD	4- 9-74	2. 28	10-21-74	1. 23	4-23-75	1. 26
S53050.	410041. 0721227.	GRASSY HOLLOW FD	4- 9-74	6. 45	10-21-74	5. 46	4-23-75	6. 12
S53051.	410044. 0721145.	THREEMILE HARBOR FD	4- 9-74	3. 64	10-21-74	3. 13	4-23-75	3. 24
S53052.	410120. 0721035.	THREEMILE HARBOR FD	4- 9-74	3. 25	10-21-74	2. 99	4-23-75	2. 99
S53053.	410148. 0721048.	THREEMILE HARBOR FD	4- 9-74	1. 98	10-21-74	0. 61	4-23-75	0. 92
S53054.	410300. 0720848.	FIREPLACE FD	4- 9-74	1. 81	10-21-74	1. 96	4-22-75	1. 11
S53055.	410252. 0720905.	SPRINGS FD	4- 9-74	2. 01	10-21-74	0. 86	4-22-75	0. 61
S53056.	410223. 0720821.	SPRINGS FD	4- 9-74	1. 54	10-21-74	0. 39	4-22-75	1. 44
S53057.	410228. 0720849.	SPRINGS FD	4- 9-74	2. 58	10-21-74	1. 88	4-22-75	2. 13
S53058.	410122. 0720924.	SPRINGS FD	4- 9-74	3. 88	10-21-74	2. 41	4-22-75	3. 18
S53059.	410058. 0720934.	SPRINGS FD	4- 9-74	5. 71	10-21-74	3. 95	4-22-75	5. 30
S53194.	405922. 0721948.	NOYACK FD	4-10-74	7. 40	10-21-74	6. 41	4-21-75	6. 82
S53195.	410024. 0720728.	BARNS HOLE FD	4- 9-74	0. 50	10-21-74	-0. 32	4-22-75	0. 00
S53196.	410012. 0720802.	BARNS HOLE FD	4- 9-74	6. 57	10-21-74	5. 06	4-22-75	6. 27
S53197.	410010. 0721850.	SAG HARBOR FD	4- 9-74	1. 03	10-21-74	0. 86	4-22-75	0. 56

1 S, SUFFOLK COUNTY
2 SHOULD BE READ 40°57'26", 072°09'37"
3 FD, FIRE DEPARTMENT

TABLE 2.--CHEMICAL ANALYSIS OF WATER FROM WELLS

LOCAL IDENTIFIER	LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA, MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
S 8288	40 59 38	072 19 58	01	74-04-10	10.0	119	4.8	10	12	--	--	22	12
				74-10-22	11.0	108	5.6	9	11	.00	2.8	19	10
				75-04-21	12.0	148	6.1	7	9	.01	1.4	26	18
S 8831	40 55 07	072 24 44	01	74-04-09	10.0	66	4.5	2	2	--	--	13	12
S 8833	40 57 56	072 17 35	01	74-04-09	7.0	59	5.4	2	2	--	--	3	2
				74-10-22	18.0	57	5.8	7	8	.00	.02	6	0
				75-04-24	10.5	45	5.6	3	4	.01	.01	5	1
S 8836	40 53 09	072 23 31	01	74-04-09	12.0	182	5.3	21	26	--	--	51	30
				74-10-22	13.5	168	6.3	16	19	.00	--	40	25
				75-04-24	13.0	174	6.0	20	24	.01	3.2	52	33
S 8837	40 57 56	072 10 49	01	74-04-10	10.0	387	5.3	40	49	--	--	60	20
				74-10-22	13.0	410	5.8	40	49	.00	2.3	61	20
				75-01-27	13.0	405	6.1	43	52	.00	.58	63	20
				75-01-27	13.0	430	6.0	42	51	.01	1.3	64	23
				75-01-27	13.0	425	6.1	42	51	.00	.90	66	25
				75-04-22	12.0	411	6.1	45	55	.01	1.3	56	11
S 8838	40 56 28	072 16 47	01	74-04-09	11.0	220	5.5	5	6	--	--	61	56
				74-10-23	11.5	320	5.6	6	7	.00	6.4	110	100
				75-04-21	12.0	372	5.8	9	11	.01	3.6	130	120
S 8844	40 59 48	072 17 21	01	74-04-09	10.0	70	5.6	13	16	--	--	15	1
				74-10-22	11.5	70	6.3	14	17	.00	.02	13	0
				75-04-21	12.0	62	6.8	13	16	.01	.00	13	0
S 15048	41 00 34	072 09 47	01	74-04-10	11.0	75	5.9	7	8	--	--	9	3
				74-10-22	11.0	77	5.8	5	6	.00	.82	13	8
				75-04-22	11.5	68	5.8	4	5	.01	.23	8	4
S 15332	40 54 38	072 18 16	01	74-04-10	10.0	400	5.2	9	11	--	--	153	144
				74-10-23	11.0	450	5.6	6	7	.00	11	130	130
				75-04-21	12.0	477	5.8	7	9	.01	10	190	180
S 16121	41 00 33	072 07 55	01	74-04-10	10.5	130	6.0	11	14	--	--	21	10
				74-10-22	11.0	135	5.8	9	11	.00	.93	22	13
				75-04-22	11.0	120	5.8	9	11	.01	.63	21	12
S 22499	40 53 15	072 26 32	01	74-04-10	10.5	92	6.1	13	16	--	--	21	8
S 34644	40 54 21	072 27 12	02	74-10-21	12.0	126	6.1	23	28	.00	.09	31	8
				75-04-21	11.5	102	6.0	14	17	.01	.17	26	12
S 36401	40 52 21	072 25 54	01	74-04-11	11.0	85	6.1	5	6	--	--	12	7
				74-10-21	12.5	80	5.6	5	6	.00	.05	10	5
				75-04-21	12.0	75	6.8	6	7	.01	.05	12	7
S 46524	40 59 06	072 15 35	01	74-04-10	9.0	50	5.3	2	2	--	--	4	3
				74-10-22	14.0	115	5.3	2	2	.00	.01	7	6
				75-04-23	11.0	100	5.1	1	1	.01	.01	4	3

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
S 8288	74-04-10	4.7	2.5	11	.8	14	4.5	.1	11	3200	20	55
	74-10-22	4.0	2.2	9.7	1.0	14	5.4	.1	11	1700	20	65
	75-04-21	5.2	3.1	16	1.1	24	14	.1	12	370	20	86
S 8831	74-04-09	3.0	1.4	4.5	.8	7.7	10	.1	4.9	130	250	33
S 8833	74-04-09	.5	.5	5.6	.6	8.3	6.0	.1	.5	2500	40	23
	74-10-22	.9	.8	6.0	.4	8.7	2.9	.0	1.2	2900	50	25
	75-04-24	.7	.7	5.4	.5	7.9	4.1	.1	.7	1000	30	22
S 8836	74-04-09	15	3.4	11	2.2	16	23	.1	5.9	11000	30	89
	74-10-22	12	2.5	9.8	2.0	18	17	.1	6.3	460	0	90
	75-04-24	16	3.0	11	2.3	19	17	.1	7.2	280	10	102
S 8837	74-04-10	19	3.1	40	9.0	64	27	.2	7.0	280	4300	193
	74-10-22	19	3.2	42	9.9	69	25	.1	6.9	180	210	209
	75-01-27	20	3.2	46	8.3	75	26	.1	6.7	180	230	211
	75-01-27	20	3.5	46	8.5	79	27	.1	6.7	110	220	216
	75-01-27	21	3.4	46	8.6	78	27	.2	6.7	120	220	216
	75-04-22	18	2.6	46	7.6	72	23	.1	6.7	310	210	209
S 8838	74-04-09	19	3.2	8.5	8.4	14	35	.2	8.4	430	40	100
	74-10-23	32	6.2	7.7	8.8	16	80	.0	8.9	810	20	191
	75-04-21	40	7.4	9.5	8.5	22	83	.0	8.9	640	10	201
S 8844	74-04-09	3.7	1.3	7.0	.8	8.9	3.2	.0	17	160	10	50
	74-10-22	2.9	1.3	6.0	.0	8.2	3.3	.0	16	320	0	46
	75-04-21	2.7	1.5	6.5	.8	9.1	3.4	.2	17	540	10	49
S 15048	74-04-10	1.2	1.5	9.0	.8	12	7.6	.0	8.3	2600	40	44
	74-10-22	3.2	1.1	9.5	1.0	11	6.0	.0	8.2	670	20	43
	75-04-22	1.1	1.2	8.3	.8	12	6.1	.2	8.6	1200	30	42
S 15332	74-04-10	48	8.0	11	6.0	25	100	.0	7.6	1900	900	211
	74-10-23	48	2.7	12	5.2	29	110	.1	7.5	450	520	229
	75-04-21	60	9.7	12	4.6	29	130	.2	7.9	2400	90	302
S 16121	74-04-10	3.5	3.0	13	3.0	20	14	.1	10	420	30	73
	74-10-22	4.0	2.9	14	2.5	21	13	.1	10	410	20	73
	75-04-22	3.7	2.9	13	2.5	20	14	.2	11	210	20	76
S 22499	74-04-10	3.7	2.8	8.9	.7	13	7.2	.1	16	320	40	60
S 34644	74-10-21	6.0	4.0	9.4	.6	10	12	.1	14	4000	80	70
	75-04-21	4.5	3.5	8.5	.9	12	12	.1	18	3000	50	69
S 36401	74-04-11	1.5	2.0	9.0	.6	14	5.9	.1	7.6	3900	40	44
	74-10-21	1.0	1.8	9.5	.4	14	5.8	.0	7.3	880	60	43
	75-04-21	2.0	1.8	9.3	.6	15	4.9	.1	8.0	5500	30	45
S 46524	74-04-10	.9	.5	4.7	.1	7.9	4.2	.1	4.5	10	70	24
	74-10-22	1.6	.8	16	.7	25	4.8	.0	5.4	110	170	55
	75-04-23	.6	.6	16	.4	23	4.6	.2	4.9	40	100	51

TABLE 2.--CHEMICAL ANALYSIS OF WATER FROM WELLS (CONTINUED)

LOCAL IDENTIFIER	LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
S 47235	41 00 37	072 14 51	01	74-04-18	14.0	145	6.3	20	24	--	--	--	--
				74-11-04	18.0	<50	6.8	21	25	.00	.02	16	0
				75-05-06	11.0	130	6.5	26	32	.00	.02	24	0
S 47236	41 01 56	072 13 36	01	74-04-18	13.0	100	6.0	6	7	--	--	--	--
				75-04-21	11.0	100	6.2	9	9	.00	.02	13	6
S 48425	40 56 06	072 20 27	01	74-04-18	11.0	370	5.6	5	6	--	--	--	--
				74-11-04	12.0	460	5.6	8	10	.00	12	200	190
				75-05-01	10.5	520	5.8	8	10	.00	12	190	190
S 48426	40 57 40	072 19 00	01	74-05-20	11.0	320	6.4	16	20	--	--	--	--
				74-10-22	11.0	215	6.3	16	20	.01	3.2	67	51
				75-04-25	11.0	145	6.4	19	23	.00	1.4	42	23
S 48427	40 56 18	072 18 05	01	74-05-20	12.0	280	5.5	6	7	--	--	--	--
				74-10-23	11.5	260	5.7	5	6	.00	5.5	64	59
				75-04-28	12.0	265	5.7	7	9	.00	6.3	64	57
S 48428	40 57 04	072 16 59	01	74-04-09	9.0	65	5.1	2	3	--	--	9	7
				74-10-23	11.0	64	5.9	4	5	.00	.04	10	6
				75-04-23	11.0	64	6.0	6	7	.00	.02	10	4
S 48429	40 58 07	072 12 10	01	74-04-10	10.0	350	6.1	15	18	--	--	140	125
				74-10-25	11.0	350	6.1	20	24	.01	4.8	140	120
				75-04-23	12.0	430	6.2	27	33	.01	3.8	160	140
S 48430	40 55 01	072 21 55	01	74-04-18	12.0	68	5.5	15	18	--	--	--	--
				74-11-04	11.5	68	5.6	3	4	.00	.05	12	9
				75-05-01	10.5	73	5.6	3	4	.00	.05	15	11
S 48432	40 56 06	072 23 57	01	74-05-15	12.0	78	6.1	6	7	--	--	--	--
				74-10-21	10.0	70	6.2	5	6	.00	.03	12	8
				75-04-24	11.0	78	6.3	8	7	.00	.02	18	12
S 48433	40 56 44	072 22 01	01	74-05-15	12.0	64	5.9	7	8	--	--	--	--
				74-10-22	11.0	60	6.2	5	6	.00	.00	11	7
				75-04-25	11.0	63	6.2	7	8	.00	.01	11	5
S 48437	40 58 31	072 17 12	01	74-04-09	10.0	60	6.0	7	8	--	--	11	4
				74-10-23	10.5	62	6.3	7	9	.00	.00	12	4
				75-04-28	11.0	65	6.3	10	12	.00	.00	10	0
S 48438	40 58 44	072 19 16	01	74-04-10	9.0	93	5.6	7	8	--	--	16	10
				74-10-22	9.5	94	6.0	5	6	.00	1.5	20	15
				75-04-29	10.0	95	6.1	10	12	.00	1.4	17	7
S 48439	40 53 25	072 26 27	02	74-10-21	11.0	78	6.9	17	21	.01	.15	44	26
				75-04-24	13.0	196	6.3	11	14	.01	1.5	34	22
S 48440	40 53 25	072 26 27	01	74-04-09	11.0	75	5.8	10	12	--	--	16	6
				74-10-21	12.0	190	5.9	9	11	.00	1.3	46	37
				75-04-24	12.0	81	6.9	11	13	.00	.34	21	10

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
S 47235	74-04-18	--	--	--	--	21	10	--	12	3100	190	--
	74-11-04	2.6	2.2	15	1.0	13	6.3	.1	14	2600	250	67
	75-05-06	4.7	3.0	13	1.5	17	4.3	.0	13	3200	190	72
S 47236	74-04-18	--	--	--	--	16	8.0	--	12	870	20	--
	75-04-21	2.1	2.0	11	.5	16	8.0	.2	12	720	10	56
S 48425	74-04-18	--	--	--	--	31	120	--	8.0	120	40	--
	74-11-04	63	70	8.0	3.2	29	130	.1	7.8	440	10	369
	75-05-01	63	9.1	7.9	3.4	27	120	.0	8.0	740	10	296
S 48426	74-05-20	--	--	--	--	19	79	--	15	690	30	--
	74-10-22	18	5.4	10	.8	16	41	.0	15	660	40	130
	75-04-25	12	3.0	9.3	.6	12	17	.2	16	420	20	88
S 48427	74-05-20	--	--	--	--	29	46	--	9.7	340	20	--
	74-10-23	19	3.9	18	5.9	25	45	.1	9.2	620	10	153
	75-04-28	19	4.0	14	4.3	18	43	.0	9.6	10000	13000	144
S 48428	74-04-09	1.0	1.7	6.4	.7	11	5.8	.1	7.6	250	20	--
	74-10-23	1.5	1.6	6.1	.5	11	5.2	.1	7.6	720	40	36
	75-04-23	1.6	1.5	6.1	.5	13	5.1	.1	7.7	500	10	39
S 48429	74-04-10	47	5.5	7.7	.8	14	100	.2	6.8	710	40	--
	74-10-25	45	6.2	7.8	.7	14	100	.1	7.3	860	40	214
	75-04-23	54	6.6	8.2	.8	17	120	.1	7.7	1100	20	248
S 48430	74-04-18	--	--	--	--	12	6.9	--	7.3	30	20	--
	74-11-04	2.0	1.7	6.5	.6	11	7.6	.1	6.8	270	70	38
	75-05-01	3.1	1.7	7.0	1.1	14	6.1	.0	7.4	100	10	43
S 48432	74-05-15	--	--	--	--	11	6.2	--	8.5	210	20	--
	74-10-21	2.5	1.5	6.9	.6	11	7.3	.1	8.4	370	20	41
	75-04-24	4.4	1.7	6.9	.6	14	5.6	.0	9.0	460	10	46
S 48433	74-05-15	--	--	--	--	8.5	6.8	--	8.5	420	20	--
	74-10-22	2.1	1.5	5.2	.4	7.5	5.0	.1	8.3	1200	30	33
	75-04-25	2.1	1.5	5.2	.4	9.1	6.7	.1	8.7	310	10	38
S 48437	74-04-09	2.0	1.4	5.7	.5	8.1	5.5	.1	11	540	30	38
	74-10-23	2.7	1.2	6.5	.5	8.0	5.1	.1	11	860	10	40
	75-04-28	2.1	1.2	5.9	.3	7.0	4.3	.0	11	4000	4500	38
S 48438	74-04-10	3.5	1.8	8.5	1.0	11	10	.1	11	230	230	--
	74-10-22	5.0	1.8	7.5	.7	9.5	14	.1	11	450	150	59
	75-04-29	4.1	1.7	7.8	.8	10	9.3	.1	11	320	80	57
S 48439	74-10-21	14	2.1	7.8	.5	10	4.1	.1	13	750	20	63
	75-04-24	9.0	2.7	21	1.1	37	12	.2	7.2	2200	30	104
S 48440	74-04-09	3.1	1.9	6.8	.7	9.6	6.4	.2	14	210	30	--
	74-10-21	15	2.1	7.7	.7	38	6.4	.2	7.2	360	20	89
	75-04-24	5.1	1.9	6.7	.4	11	6.1	.2	14	360	10	53

TABLE 2.--CHEMICAL ANALYSIS OF WATER FROM WELLS (CONTINUED)

LOCAL IDENTIFIER	LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
S 48441	40 53 49	072 23 48	01	74-04-09	11.0	320	5.6	5	6	--	--	108	103
				74-10-22	12.0	305	6.1	7	8	.01	5.2	110	100
				75-04-24	12.5	340	6.1	7	8	.01	5.4	110	100
S 48517	40 58 38	072 15 40	01	74-05-15	12.0	72	5.7	2	3	--	--	--	--
				75-04-23	12.0	81	5.8	5	6	.01	.29	17	12
S 48518	40 56 50	072 14 52	01	74-05-15	12.0	63	5.9	9	11	--	--	--	--
				74-10-25	11.0	65	6.3	7	8	.00	.03	12	6
				75-04-23	11.0	68	6.5	10	12	.00	.01	13	3
S 48519	41 02 43	071 56 01	01	74-04-10	11.0	220	6.0	32	39	--	--	42	10
				74-10-31	12.0	205	6.5	25	30	--	--	41	16
				75-04-21	12.0	235	6.6	38	41	.01	2.3	44	10
S 48520	40 58 18	072 13 21	01	74-04-10	10.0	137	5.7	7	9	--	--	21	13
				74-10-25	11.0	155	5.7	6	7	.02	4.3	28	22
				75-04-23	11.0	160	5.9	10	12	.02	4.3	27	17
S 48521	40 59 40	072 16 47	01	74-05-15	11.0	67	6.2	8	10	--	--	--	--
				74-10-23	10.5	70	6.2	7	8	.02	.34	12	5
				75-04-23	11.0	70	6.4	9	11	.00	.09	12	3
S 48522	40 58 58	072 06 24	01	74-04-10	10.0	175	6.0	9	11	--	--	29	20
				74-10-25	12.0	170	6.0	8	10	.01	.11	29	21
				75-04-22	11.0	153	6.4	10	12	.00	.17	19	9
S 48577	41 01 49	071 58 32	01	74-04-10	10.0	128	6.9	16	20	--	--	23	7
				74-10-31	11.0	127	7.0	19	23	--	--	34	15
				75-04-21	11.0	116	6.6	16	20	.01	.56	22	5
S 48578	40 59 28	072 11 04	01	74-04-18	13.0	260	5.9	7	8	--	--	--	--
				74-10-31	14.0	136	6.1	13	16	--	--	13	0
				74-11-04	14.0	133	6.2	11	14	.00	2.1	16	5
				75-05-02	11.0	290	6.1	16	19	.01	3.4	24	9
S 48579	41 03 16	071 53 55	01	74-10-31	12.0	210	5.9	6	7	--	--	24	19
				75-04-21	12.0	235	5.9	22	27	.01	.46	31	9
S 48580	41 01 24	072 10 32	01	74-04-18	12.0	100	5.7	4	5	--	--	--	--
				74-11-04	12.0	100	5.9	5	6	.00	1.0	13	8
				75-05-02	10.5	97	5.8	5	6	.00	.54	13	8
S 49898	40 58 46	072 09 30	01	74-04-10	10.0	98	5.5	5	6	--	--	10	5
				74-10-25	12.0	79	5.7	6	7	.00	.09	9	3
				75-04-22	11.0	69	5.9	4	5	.00	.26	9	5
S 51184	41 01 47	072 18 41	01	74-03-01	12.0	1130	5.4	9	11	--	--	97	88
				74-05-20	10.0	90	5.7	5	6	--	--	--	--
				74-11-04	14.0	958	5.6	11	14	.00	1.3	98	87
S 51185	41 01 32	072 18 46	01	74-03-01	11.5	100	5.6	7	9	--	--	17	10
				74-05-20	12.0	760	5.8	9	11	--	.93	--	--

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
S 48441	74-04-09	32	6.7	11	1.0	20	76	.1	8.8	130	30	159
	74-10-22	32	7.2	12	1.0	19	80	.1	8.5	740	30	187
	75-04-24	32	7.1	11	.8	22	78	.2	9.3	590	20	188
S 48517	74-05-15	--	--	--	--	12	8.4	--	7.2	340	0	--
	75-04-23	4.0	1.8	6.5	1.2	12	7.7	.1	8.0	750	30	46
S 48518	74-05-15	--	--	--	--	7.7	5.4	--	12	750	30	--
	74-10-25	2.9	1.2	6.0	.4	8.2	5.5	.1	11	630	40	39
	75-04-23	3.0	1.3	5.9	.4	11	5.9	.2	12	230	10	46
S 48519	74-04-10	8.0	5.4	20	4.0	27	11	.3	20	160	80	--
	74-10-31	11	3.3	11	.7	28	11	.1	21	360	50	101
	75-04-21	9.2	5.0	22	4.7	30	11	.1	21	390	30	133
S 48520	74-04-10	4.5	2.3	12	6.7	19	12	.1	10	3300	660	--
	74-10-25	6.0	3.2	11	4.6	17	13	.1	11	640	100	88
	75-04-23	5.5	3.2	12	4.0	21	8.9	.2	11	1500	130	91
S 48521	74-05-15	--	--	--	--	8.1	5.9	--	12	360	20	--
	74-10-23	2.5	1.3	6.9	.5	8.0	5.0	.1	11	410	40	41
	75-04-23	2.8	1.2	6.4	.4	12	5.5	.1	12	2300	20	46
S 48522	74-04-10	5.0	4.0	18	1.3	35	9.5	.2	9.3	1600	--	--
	74-10-25	5.5	3.7	16	1.2	32	8.2	.1	9.0	620	40	81
	75-04-22	3.4	2.6	17	1.0	28	8.5	.2	9.6	300	10	77
S 48577	74-04-10	4.5	2.9	13	1.6	20	4.8	.2	14	880	80	--
	74-10-31	4.5	5.5	10	.6	19	6.3	.1	15	490	50	72
	75-04-21	4.9	2.3	11	1.4	19	5.5	.2	13	620	30	70
S 48578	74-04-18	--	--	--	--	27	11	--	12	560	50	--
	74-10-31	4.1	.6	7.5	.3	22	4.8	.1	11	460	50	58
	74-11-04	4.2	1.4	18	1.0	22	7.9	.1	11	680	100	82
	75-05-02	7.0	1.7	35	2.1	51	8.5	.0	12	560	60	142
S 48579	74-10-31	6.6	1.9	10	.8	37	14	.1	12	2400	150	86
	75-04-21	6.0	3.9	26	2.7	40	15	.2	12	2500	50	121
S 48580	74-04-18	--	--	--	--	15	12	--	11	230	50	--
	74-11-04	1.3	2.3	13	.6	14	13	.1	9.7	1000	80	61
	75-05-02	1.8	2.1	10	.6	14	9.4	.0	10	260	10	53
S 49898	74-04-10	2.2	1.1	12	1.2	21	4.0	.1	4.4	350	100	--
	74-10-25	.7	1.8	7.9	.8	13	3.9	.1	7.3	2700	40	39
	75-04-22	2.2	.9	6.7	.7	15	2.8	.2	2.7	890	70	35
S 51184	74-03-01	11	17	170	4.2	300	49	.0	9.1	300	260	566
	74-05-20	--	--	--	--	13	10	--	9.5	150	50	--
	74-11-04	13	16	180	6.7	290	64	.1	10	700	270	592
S 51185	74-03-01	2.4	2.7	9.0	.7	15	10	.1	9.1	40	30	53
	74-05-20	--	--	--	--	260	59	--	9.8	120	180	--

TABLE 2.--CHEMICAL ANALYSIS OF WATER FROM WELLS (CONTINUED)

LOCAL IDENT-I-FIER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	DATE OF SAMPLE	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	ALKA-LINITY AS CACO3 (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
S 51185	41 01 32	072 18 46	01	74-11-04	13.0	78	5.8	8	10	.00	.16	14	6
S 51186	41 00 47	072 18 47	01	74-03-04	11.0	185	5.6	7	9	--	--	39	31
				74-05-20	11.0	165	5.5	9	11	--	--	--	--
				74-11-04	12.0	280	5.6	12	15	.00	4.3	58	45
S 52657	40 59 12	072 22 07	01	74-04-10	11.0	95	4.4	15	18	--	--	17	2
				74-10-23	11.0	90	5.8	14	17	.00	.43	18	4
				75-04-21	12.5	90	5.9	14	17	.00	.32	17	3
S 52658	40 54 11	072 26 19	01	74-04-10	11.0	85	5.8	13	16	--	--	19	5
				74-10-21	12.0	60	6.0	13	16	.01	.69	24	11
				75-01-27	11.5	74	5.8	11	13	.00	.33	22	11
				75-01-27	10.0	75	5.8	10	12	.00	.33	18	8
				75-04-21	11.0	77	6.8	11	14	.01	.21	17	6
S 52666	40 54 34	072 20 40	01	74-04-11	10.0	75	6.0	7	8	--	--	18	11
				74-10-23	13.0	155	6.0	11	13	.00	4.6	41	30
				75-04-23	12.0	287	5.6	7	9	.01	8.2	83	76
S 52669	40 55 54	072 20 01	01	74-04-11	11.0	400	5.4	9	11	--	--	129	120
				74-10-23	11.0	475	5.3	4	5	.00	14	160	150
				75-04-21	12.0	420	5.4	4	5	.01	15	150	140
S 52679	40 55 03	072 16 50	01	74-04-10	11.0	285	5.5	22	27	--	--	82	60
				74-10-23	11.5	320	6.1	17	21	.00	5.2	83	66
				75-04-21	12.0	287	6.1	18	22	.01	6.7	86	68
S 52683	40 56 00	072 15 00	01	74-04-10	10.0	325	5.2	7	9	--	--	92	85
				74-10-23	12.0	305	6.1	9	11	.00	8.6	11	98
				75-04-21	12.5	315	5.8	7	8	.01	5.6	98	91
S 52686	40 56 32	072 11 56	01	74-04-10	11.0	220	5.0	10	12	--	--	61	51
				74-10-23	12.0	210	5.7	11	13	.00	4.8	66	56
				75-04-22	12.0	179	5.4	8	10	.01	3.7	47	39
S 57807	40 55 28	072 24 35	01	74-10-23	11.0	140	5.9	0	0	.00	.03	18	18
				75-04-22	11.5	95	6.0	0	0	.01	.02	7	7

LOCAL IDENT-I-FIER	DATE OF SAMPLE	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
S 51185	74-11-04	2.1	2.1	7.9	.4	9.8	8.1	.1	9.3	830	160	45
S 51186	74-03-04	8.0	4.5	16	1.0	28	17	.1	9.4	70	20	88
	74-05-20	--	--	--	--	21	17	--	9.5	110	0	--
	74-11-04	13	6.1	30	.9	55	17	.1	9.6	720	510	158
S 52657	74-04-10	3.5	2.0	9.5	.7	12	6.5	.0	10	38000	90	55
	74-10-23	3.3	2.3	9.0	.4	11	6.3	.1	11	710	20	52
	75-04-21	3.0	2.4	9.3	.9	13	6.6	.3	12	1500	30	57
S 52658	74-04-10	3.0	2.7	7.0	.6	10	8.2	.2	9.5	12000	20	49
	74-10-21	5.5	2.5	7.0	.5	10	6.5	.0	9.3	1900	20	49
	75-01-27	4.2	2.8	7.3	.8	10	6.3	.2	9.3	140	10	47
	75-01-27	2.5	2.9	7.1	.8	10	6.2	.0	9.4	150	10	45
	75-04-21	2.7	2.5	7.2	.6	11	6.6	.1	9.9	610	20	48
S 52666	74-04-11	5.5	1.0	3.0	2.0	4.1	9.7	.1	3.0	1400	30	32
	74-10-23	12	2.6	8.1	2.4	19	14	.1	3.6	2700	10	88
	75-04-23	25	5.0	13	3.9	28	40	.1	4.2	9600	30	160
S 52669	74-04-11	37	9.0	12	10	27	78	.1	8.3	1400	600	187
	74-10-23	46	10	11	10	28	96	.1	8.1	320	490	274
	75-04-21	44	9.4	9.0	10	24	84	.3	8.4	220	310	258
S 52679	74-04-10	25	4.7	15	4.6	29	41	.0	5.8	420	20	138
	74-10-23	26	4.4	16	5.7	32	45	.0	6.0	350	0	168
	75-04-21	27	4.5	14	5.5	27	44	.1	6.1	400	20	169
S 52683	74-04-10	26	6.6	10	11	26	47	.1	7.1	460	40	138
	74-10-23	30	7.8	9.5	11	25	57	.0	.7	1200	0	191
	75-04-21	29	6.2	9.3	10	23	61	.1	7.3	3600	40	175
S 52686	74-04-10	16	5.0	14	2.7	22	27	.1	7.7	950	110	100
	74-10-23	17	5.8	12	2.1	24	27	.0	7.3	30	0	123
	75-04-22	12	4.1	12	2.7	24	20	.0	7.7	220	20	104
S 57807	74-10-23	1.9	3.3	5.5	.6	5.0	36	.1	7.7	18000	170	60
	75-04-22	.5	1.4	5.3	.8	8.8	7.0	.2	7.5	15000	110	32

TABLE 3.--CHEMICAL ANALYSIS OF WATER FROM STREAMS

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
01304580 - COLD SPRING POND TRIBUTARY AT SHINECOOK HILL NY (LAT 40 54 05 LONG 072 27 08)										
APR , 1974										
18...	--	--	--	500	78	--	6.0	1900	100	
01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)										
APR , 1974										
18...	--	--	--	13	13	--	6.9	420	80	--
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)										
APR , 1974										
18...	--	--	--	17	11	--	2.3	250	210	--
OCT										
21...	2.3	12	1.2	18	11	.1	4.5	60	100	61
APR , 1975										
22...	1.8	11	1.4	17	10	.2	1.0	180	140	50
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)										
APR , 1974										
18...	--	--	--	31	11	--	2.9	500	410	--
OCT										
21...	3.4	17	1.2	31	13	.2	7.7	160	420	88
APR , 1975										
22...	2.0	12	1.4	20	10	.2	1.8	80	20	55
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)										
APR , 1974										
18...	--	--	--	10	6.5	--	7.9	70	10	--
OCT										
21...	1.4	6.5	.4	8.9	6.1	.1	9.0	70	0	40
APR , 1975										
21...	1.5	6.5	.7	9.0	5.4	.2	8.4	110	10	39
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)										
APR , 1974										
18...	--	--	--	12	8.5	--	1.8	500	50	--
OCT										
21...	1.8	9.6	1.0	14	8.9	.0	8.3	620	160	56
APR , 1975										
21...	1.7	11	1.6	16	7.6	.0	7.9	670	140	57
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)										
APR , 1974										
19...	--	--	--	56	11	--	9.9	240	50	--
OCT										
21...	4.0	35	1.6	57	14	.2	11	290	10	131
APR , 1975										
23...	2.0	18	1.1	28	8.7	.3	10	140	30	74
01304672 - TANBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)										
APR , 1974										
29...	--	--	--	15	6.0	--	8.7	220	90	--
OCT										
22...	1.3	8.2	.6	15	6.0	.1	11	1000	100	50
APR , 1975										
22...	1.2	10	.9	15	6.6	.0	15	470	80	55

TABLE 3.--CHEMICAL ANALYSIS OF WATER FROM STREAMS (CONTINUED)

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
01304580 - COLD SPRING POND TRIBUTARY AT SHINECOCK HILL NY (LAT 40 54 05 LONG 072 27 08)											
APR , 1974											
18...	--	1830	6.4	11	14	17	--	--	--	--	--
01304590 - SEBONAC CREEK NEAR NORTH SEA NY (LAT 40 54 54 LONG 072 25 56)											
APR , 1974											
18...	17.0	96	5.8	7.6	2	3	--	--	--	--	--
01304597 - BIG FRESH POND OUTLET NEAR NORTH SEA NY (LAT 40 55 37 LONG 072 24 56)											
APR , 1974											
18...	14.5	100	6.3	4.8	5	6	--	--	--	--	--
OCT											
21...	6.0	115	7.3	1.0	11	13	.00	.18	22	11	5.0
APR , 1975											
22...	12.5	100	6.4	5.7	7	9	.00	.09	15	8	3.0
01304600 - BIG FRESH POND OUTLET AT NORTH SEA NY (LAT 40 55 49 LONG 072 25 04)											
APR , 1974											
18...	16.0	110	6.2	5.0	4	5	--	--	--	--	--
OCT											
21...	7.0	160	6.7	4.2	11	13	.00	.22	34	23	8.0
APR , 1975											
22...	13.5	107	6.3	6.4	7	8	.01	.12	17	10	3.5
01304630 - MILL CREEK AT NOYACK NY (LAT 40 59 35 LONG 072 21 00)											
APR , 1974											
18...	14.5	50	6.9	1.6	7	8	--	--	--	--	--
OCT											
21...	8.0	65	7.4	.6	7	9	.00	.04	13	5	2.7
APR , 1975											
21...	13.0	65	6.8	2.3	7	9	.01	.04	12	5	2.5
01304660 - LIGONEE BROOK AT SAG HARBOR NY (LAT 40 59 21 LONG 072 18 12)											
APR , 1974											
18...	17.0	75	6.5	3.0	5	6	--	--	--	--	--
OCT											
21...	6.0	102	7.3	1.2	12	15	.00	.07	21	8	5.3
APR , 1975											
21...	16.0	109	6.4	8.3	11	13	.01	.10	18	8	4.5
01304665 - LITTLE NORTHWEST CREEK NEAR SAG HARBOR NY (LAT 40 59 47 LONG 072 15 57)											
APR , 1974											
19...	9.5	252	6.3	6.4	7	8	--	--	--	--	--
OCT											
21...	10.0	160	7.3	.6	7	8	.00	.10	26	20	3.9
APR , 1975											
23...	16.0	130	6.3	5.6	6	7	.01	.10	14	9	2.5
01304672 - TANBARK CREEK AT THREEMILE HARBOR NY (LAT 40 59 44 LONG 072 11 06)											
APR , 1974											
29...	--	80	6.5	3.0	5	6	--	--	--	--	--
OCT											
22...	11.0	75	6.9	1.6	7	8	.00	.09	14	7	3.3
APR , 1975											
22...	13.5	76	6.2	7.1	6	7	.01	.11	13	7	3.1

TABLE 3.--CHEMICAL ANALYSIS OF WATER FROM STREAMS (CONTINUED)

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)										
APR , 1974										
29...	--	--	--	20	12	--	8.2	770	190	--
OCT										
22...	2.4	.11	.6	19	15	.2	10	1100	150	61
APR , 1975										
22...	1.8	11	.7	19	8.8	.3	8.8	1000	190	52
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)										
APR , 1974										
08...	--	--	--	24	22	--	4.8	710	150	--
APR , 1975										
23...	3.6	14	1.6	25	17	.3	3.6	440	60	75
01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43)										
APR , 1974										
08...	--	--	--	75	20	--	.6	580	60	--
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)										
APR , 1974										
08...	--	--	--	26	13	--	2.6	260	150000	--
APR , 1975										
23...	2.3	14	.9	26	8.5	.2	3.0	330	30	57
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)										
APR , 1974										
08...	--	--	--	30	20	--	8.4	420	130	--
APR , 1975										
23...	3.6	18	1.2	30	16	.4	8.3	490	70	84
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)										
APR , 1974										
19...	--	--	--	29	19	--	9.4	590	190	--
OCT										
22...	4.0	19	3.6	30	20	.1	10	250	140	129
APR , 1975										
22...	3.8	19	3.6	29	21	.0	9.7	480	130	117
01304697 - GEORGICA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)										
APR , 1974										
29...	--	--	--	69	7.0	--	7.6	90	40	--
OCT										
22...	1.5	61	.8	98	7.9	.1	8.1	150	10	185
APR , 1975										
22...	1.4	77	.8	120	7.9	.2	8.0	210	40	221
01304700 - GEORGICA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)										
APR , 1974										
19...	--	--	--	13	4.0	--	8.9	110	30	--
OCT										
22...	2.0	6.0	.5	10	6.2	.0	7.3	340	0	38
APR , 1975										
22...	1.4	7.9	.8	12	6.3	.1	8.6	60	20	42

TABLE 3.--CHEMICAL ANALYSIS OF WATER FROM STREAMS (CONTINUED)

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
01304675 - FRESH POND TRIBUTARY AT BARNES HOLE NY (LAT 40 59 51 LONG 072 07 22)											
APR , 1974											
29...	--	108	4.8	127	4	5	--	--	--	--	--
OCT											
22...	9.0	110	4.6	40	1	1	.00	.03	16	15	2.5
APR , 1975											
22...	10.0	95	4.9	.0	0	0	.01	.01	11	11	1.5
01304680 - LAKE MONTAUK TRIBUTARY NEAR DITCH PLAINS NY (LAT 41 03 23 LONG 071 55 53)											
APR , 1974											
08...	--	148	5.4	19	2	3	--	--	--	--	--
APR , 1975											
23...	13.0	138	6.7	2.2	6	7	.01	.40	26	20	4.5
01304683 - LAKE MONTAUK TRIBUTARY #2 AT DITCH PLAINS NY (LAT 41 02 47 LONG 071 54 43)											
APR , 1974											
08...	--	299	5.5	15	2	3	--	--	--	--	--
01304686 - OYSTER POND TRIBUTARY NEAR MONTAUK POINT NY (LAT 41 03 54 LONG 071 53 14)											
APR , 1974											
08...	--	124	4.9	463	19	23	--	--	--	--	--
APR , 1975											
23...	13.0	115	5.2	10	1	1	.01	.00	14	13	1.7
01304689 - OYSTER POND TRIBUTARY #2 NEAR MONTAUK POINT NY (LAT 41 03 58 LONG 071 53 06)											
APR , 1974											
08...	--	160	5.7	9.6	2	3	--	--	--	--	--
APR , 1975											
23...	13.5	154	6.3	3.2	3	4	.01	.03	25	22	4.2
01304693 - HOOK POND TRIBUTARY AT EASTHAMPTON NY (LAT 40 57 34 LONG 072 10 42)											
APR , 1974											
19...	10.0	200	6.4	15	19	23	--	--	--	--	--
OCT											
22...	8.0	225	7.4	1.7	22	27	.03	3.7	49	27	13
APR , 1975											
22...	13.0	218	6.3	19	20	24	.01	1.4	48	28	13
01304697 - GEORGICA POND TRIBUTARY #2 AT MIDHAMPTON NY (LAT 40 57 10 LONG 072 13 48)											
APR , 1974											
29...	--	258	6.1	8.9	6	7	--	--	--	--	--
OCT											
22...	9.0	320	6.0	11	6	7	.00	.03	17	12	4.5
APR , 1975											
22...	16.5	438	6.0	9.6	5	6	.01	.00	14	9	3.1
01304700 - GEORGICA POND TRIBUTARY AT MIDHAMPTON NY (LAT 40 57 01 LONG 072 14 20)											
APR , 1974											
19...	9.0	75	6.1	8.9	6	7	--	--	--	--	--
OCT											
22...	9.0	60	5.4	45	6	7	.00	.05	15	10	2.9
APR , 1975											
22...	12.0	72	5.8	14	5	6	.01	.35	10	5	1.5

TABLE 3.--CHEMICAL ANALYSIS OF WATER FROM STREAMS (CONTINUED)

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)										
APR , 1974										
18...	--	--	--	22	40	--	8.4	420	50	--
OCT										
22...	5.5	11	2.6	23	43	.1	9.4	180	10	134
APR , 1975										
21...	4.9	12	3.6	23	42	.1	7.8	460	30	136
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)										
APR , 1974										
18...	--	--	--	23	64	--	6.5	30	50	--
OCT										
21...	7.6	11	3.8	24	82	.1	7.6	0	20	202
APR , 1975										
21...	3.8	8.3	3.8	16	40	.1	4.8	510	90	105
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)										
APR , 1974										
18...	--	--	--	18	39	--	6.3	70	80	--
OCT										
21...	5.4	7.9	3.8	18	43	.1	8.5	100	50	129
APR , 1975										
23...	4.6	8.2	4.2	17	37	.1	7.2	100	70	128
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)										
APR , 1974										
18...	--	--	--	18	56	--	.1	110	50	--
OCT										
21...	7.7	9.5	2.1	22	69	.1	3.1	30	0	164
APR , 1975										
23...	5.8	9.0	2.8	20	60	.2	.1	230	210	139

TABLE 3.--CHEMICAL ANALYSIS OF WATER FROM STREAMS (CONTINUED)

DATE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	CARBON DIOXIDE (CO2) (MG/L)	ALKALINITY AS CACO3 (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
01304730 - POXABOGUE POND OUTLET AT SAGAPONACK NY (LAT 40 55 48 LONG 072 17 16)											
APR , 1974											
18...	14.0	230	6.4	8.3	11	13	--	--	--	--	--
OCT											
22...	6.0	225	6.9	3.4	14	17	.00	2.3	75	61	21
APR , 1975											
21...	12.0	230	6.4	8.9	11	14	.01	3.7	68	56	19
01304733 - HAYGROUND COVE TRIBUTARY #2 AT HAYGROUND NY (LAT 40 55 25 LONG 072 20 08)											
APR , 1974											
18...	11.0	300	6.1	14	9	11	--	--	--	--	--
OCT											
21...	10.5	355	5.2	121	10	12	.00	6.4	110	100	32
APR , 1975											
21...	16.0	181	6.7	4.8	12	15	.01	.89	58	46	17
01304734 - HAYGROUND COVE TRIBUTARY AT WATER MILL NY (LAT 40 55 15 LONG 072 20 26)											
APR , 1974											
18...	12.0	210	6.2	12	10	12	--	--	--	--	--
OCT											
21...	9.0	237	5.1	114	7	9	.00	3.8	75	67	21
APR , 1975											
23...	16.5	195	5.9	12	5	6	.01	6.7	61	56	17
01304739 - MILL CREEK AT WATER MILL NY (LAT 40 54 34 LONG 072 21 25)											
APR , 1974											
18...	11.5	225	6.6	3.6	7	9	--	--	--	--	--
OCT											
21...	6.0	328	7.2	3.5	29	35	.00	.24	110	85	33
APR , 1975											
23...	14.5	249	6.6	6.1	14	17	.01	1.5	89	75	26

Table 4.--Discharge of streams

[Discharges are in cubic feet per second]

Station identification number	Name of stream	Latitude	Longitude	Streamflow data					
				Date	Discharge	Date	Discharge	Date	Discharge
01304580	Cold Spring Pond Tributary at Shinnecock Hills	40°54'05"	072°27'08"	4-18-74	0.12	--	--	--	--
01304590	Sebonac Creek near North Sea	40°54'54"	072°25'56"	4-18-74	0.35	10-22-74	no flow	4-19-75	0.09
01304597	Big Fresh Pond Outlet near North Sea	40°55'37"	072°24'56"	4-18-74	1.79	10-25-74	no flow (shallow)	4-19-75	1.66
01304600	Big Fresh Pond Outlet at North Sea	40°55'49"	072°25'04"	4-18-74	2.06	10-25-74	0.16	4-19-75	2.02
01304630	Mill Creek at Noyack	40°59'35"	072°21'00"	4-18-74	1.19	10-23-74	0.49	4-20-75	0.71
01304660	Ligonee Brook at Sag Harbor	40°59'21"	072°18'12"	4-18-74	0.61	[2]10-23-74	shallow	4-20-75	0.07
01304665	Little Northwest Creek near Sag Harbor	40°59'47"	072°15'57"	4-19-74	0.55	10-23-74	0.46	4-19-75	0.87
01304672	Tanbark Creek at Threemile Harbor	40°59'44"	072°11'06"	4-29-74	0.48	10-22-74	0.40	4-19-75	0.33
01304675	Fresh Pond Tributary at Barnes Hole	40°59'51"	072°07'22"	4-29-74	0.12	10-21-74	0.04	4-21-75	0.21
01304680	Lake Montauk Tributary near Ditch Plains	41°03'23"	071°55'53"	4-18-74	0.27	10-21-74	dry	4-18-75	0.67
01304683	Lake Montauk Tributary 2 at Ditch Plains	41°02'47"	071°54'43"	4-08-74	0.24	10-21-74	dry	[2]4-18-75	shallow
01304686	Oyster Pond Tributary near Montauk Point	41°03'54"	071°53'14"	4-08-74	0.96	10-21-74	dry	[1]4-18-75	3.51
01304689	Oyster Pond Tributary 2 near Montauk Point	41°03'58"	071°53'06"	4-08-74	0.31	10-21-74	dry	4-18-75	0.76
01304693	Hook Pond Tributary at East Hampton	40°57'34"	072°13'42"	4-19-74	0.70	10-21-74	0.40	4-21-75	0.49
01304697	Georgica Pond Tributary 2 at Midhampton	40°57'10"	072°13'48"	4-29-74	0.24	10-22-74	0.18	4-21-75	0.11
01304700	Georgica Pond Tributary at Midhampton	40°57'01"	072°14'20"	4-19-74	0.46	10-21-74	0.10	4-21-75	0.12
01304730	Poxabogue Pond Outlet at Sagaponack	40°55'48"	072°17'16"	4-18-74	3.20	10-22-74	1.50	4-20-75	3.51
01304733	Hayground Cove Tributary 2 at Hayground	40°55'25"	072°20'08"	4-18-74	0.46	10-25-74	0.17	4-20-75	0.32
01304734	Hayground Cove Tributary at Water Mill	40°55'15"	072°20'26"	4-18-74	0.87	10-22-74	0.36	4-20-75	0.45
01304739	Mill Creek at Water Mill	40°54'34"	072°21'25"	4-18-74	3.95	10-24-74	1.27	4-21-75	4.80

[1] Snowmelt runoff
[2] not measureable

Table 5.--Major estimated public-supply withdrawals on the South Fork, Long Island, from 1970 to 1975

[Records from New York State Department of Environmental Conservation]

Owner	Location	Aquifer[1]	Pumpage, in million gallons per day					
			1970	1971	1972	1973	1974	1975
Suffolk County Water Authority	East Hampton	G	.63	.73	.58	[4].86	[4].97	[4]1.30
		M	--	.01	.18	.06	.06	.08
Suffolk County Water Authority	Southampton	G	.77	.61	.57	.47	.49	.53
		M	--	.15	.14	.28	.30	.13
Suffolk County Water Authority	Sag Harbor	G	.27	.30	.27	.28	.25	.29
Amagansett Water Company[2]	Amagansett	G	.24	.33	.24	.47	.26	.09
Bridgehampton Water Company	Bridgehampton	G	.09	.09	.13	.14	.14	.12
Montauk Water Company[3]	Montauk	G	.20	.24	.18	.07	--	--
Montauk Air Force Base	Montauk	G	.03	.03	.03	.03	.03	.03
Total		G	2.23	2.33	2.00	2.18	2.14	2.36
		M	--	.16	.32	.34	.36	.21

[1] G, upper glacial aquifer; M, Magothy aquifer
[2] Service taken over by Suffolk County Water Authority in May 1974
[3] Service taken over by Suffolk County Water Authority in May 1973
[4] Includes service previously operated by Amagansett and (or) Montauk Water Companies